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Type of lesson plans/  
Grade

Term/  
Learning theme

**Numeracy  
lesson plans**  
Primary 3

**Term 2**  
Involving pupils in  
their learning

**Weeks**  
11—15

# Numeracy lesson plans Primary 3 Term 2 ▶ Involving pupils in their learning

This is the third  
in a series of six  
numeracy lesson  
plan publications,  
designed to be  
used throughout  
the three academic  
school terms.



## Introduction

The quality of education is a key element to socio-economic development in any society. Perhaps the most critical element in ensuring quality of education is the teacher. Good teaching methodology, with the right textbooks, will quickly provide a good platform for a quality education system in Kano State.

The challenges are sometimes overwhelming when you have 5,335 schools with over 2.3 million children and 46,643 teachers. The Kano State Ministry of Education carried out a series of baseline surveys to assess classroom teachers, the role of the head teacher and the level of pupil learning outcomes.

The findings in most cases were alarmingly poor, with not much difference between qualified and unqualified teachers with respect to output. The majority of teachers were themselves victims of an education system that was in a serious downward slope.

Following this, the Kano State Ministry of Education, the State Universal Basic Education Board (SUBEB) and local government education authorities (LGEAs), supported by the Education Sector Support Programme in Nigeria (ESSPIN), embarked on a series of reforms that will help strengthen schools.

This work has focused on classroom teaching skills – in particular how to make teaching child-centred – and the organisational structures needed for SUBEB and LGEA staff to provide effective support and advice to primary schools.

With many school leavers unable to read or write, a specific focus has been on improving the teaching of basic literacy and numeracy. To support this, Kano State has developed a benchmark for assessment and carefully designed literacy and numeracy lesson plans for Primary 1–3 teachers. These plans provide a step-by-step guide to teachers, while ensuring children become active learners.

The lesson plans, however, are not sufficient. Structures and processes have also been put in place so that teachers are continuously supported by both the State School Improvement Team and the LGEA-based school support officers.

We are sure that within a short time of these lesson plans being introduced, children's learning abilities will improve considerably. The materials will also enable teaching and learning to be more exciting – an important element in all classes, but in particular at the primary level. We are confident that these lesson plans will raise standards and improve the quality of children proceeding to higher levels of education.

We commend all those who have produced these lesson plans and trained our teachers to use them. We offer thanks to the UK Department for International Development (DFID) for its ongoing support to education reform in Kano State through its ESSPIN programme. Let's make every Kano school an improving school.



**Barister Farouq Iya Sambo**  
Honourable Commissioner  
of Education  
Kano State



**Wada Zakari**  
Executive Chairman  
SUBEB  
Kano State

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**Numeracy  
lesson plans  
Primary 3**

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**Term 2  
Involving pupils in  
their learning**

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**Weeks  
11—15**

# Introduction

## ▶ Involving pupils in their learning

**Learning must be an active process on the part of the learner.**

### **How children learn**

These lesson plans provide you with a variety of techniques to make learning faster, fun and more effective. The plans use activities that reflect the way in which pupils naturally learn, and attempt to bring the joy back into learning for children.

Every individual in your class responds to activities differently and learns their own way, but generally children learn best when they:

Have objects to see and hold.

Take part in the lesson.

Can talk to each other to share ideas and learning.

Practise what they have learned individually, in pairs and in groups.

Are given activities that challenge them and make them think.

Receive encouragement and praise.

Realise that making mistakes is an important part of the learning process.

This third set of lesson plans contains lots of activities to encourage learning through different methods.

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**Numeracy  
lesson plans  
Primary 3**

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**Term 2  
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their learning**

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**Weeks  
11—15**

# Introduction

## ▶ Essential low-cost or free teaching aids

## Counters

Ask the pupils to help you collect together as many bottle tops, small sticks and small stones as they can. Put them into jars to keep in the classroom and use to help with counting.

## Number cards

Make sets of cards numbered from 1—200. Cut up cardboard cartons into squares and write numbers on them. Make as many sets as you can so the pupils can use them to play games.

## Metre sticks

Cut strips of card to the same size as a metre stick and carefully mark the centimetres (cms) on the card in the correct place.

These can then be used for measuring.

Cut lengths of string to the same size as a metre stick, to be used for measuring.

Ask a local carpenter if they have any long ends of wood that can be turned into a metre length.

Ask the carpenter to make marks for centimetres, with longer marks for 10, 20, 30, and so on, then write the numbers next to them.

If you write the numbers from 1—100 on the other side, these can also be used as longer-lasting 1—100 number lines.

## Measuring correctly

Show pupils how to measure the length in metres using their stick or rope.

Put one end of the rope/ stick right up against the end of the length and stretch it out until it reaches the metre mark.

Ask a pupil to put their finger on the floor at the metre mark, then lift up the rope/ stick and put the end right up against their finger to measure the next metre (there should be no space between the pupil's finger and the measuring tool).

Repeat the process until they have finished measuring the length.

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**Numeracy  
lesson plans  
Primary 3**

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**Term 2  
Involving pupils in  
their learning**

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**Weeks  
11—15**

# Introduction

## ▶ Essential low-cost or free teaching aids

## Place value cards

Use card to construct the cards below.

If possible, make one set per pair of pupils.

You could also make one large class set.

## Clocks

Collect old wall clocks that are no longer working for the pupils to use.

Hang a working clock in your classroom which the pupils can see. Use it to mention the times at different points in the day, eg: when they arrive in the morning, at the end of lessons, at break time.

Make clocks out of cardboard.

Try to make at least one for each pair in your class, they will be used in literacy as well as numeracy lessons.

On a piece of cardboard, draw around a large circle and cut it out.

Find the middle of the circle and draw a dot.

Draw lines through the middle of the circle to divide it into quarters.

Write the numbers around the edge of the clock starting with 12, 6, 9 and 3 as they will be on the ends of the lines you have drawn.

Work out where the other numbers would be and write them on.

Make a hole in the middle of the circle.

Cut out two hands, a short one and a long one.

Attach them to the middle of the circle so they can move around.

Hundred card  
1 set 100—900

Ten card  
1 set 10—90

Unit card  
1 set 0—9





Week  
11  
Subtracting  
three-digit numbers

## Words/phrases

clock  
half past  
time  
hour  
half hour  
minutes  
subtract  
take away

How many less than?

How many more than?

What's the difference  
between?

## Assessment

During the lesson, walk round the classroom and ask questions to see if the pupils clearly understand what you have taught them. If not, help them to understand by explaining the idea to them again, or asking other pupils to help them. You may need to use some different examples of the idea.

**Numeracy  
lesson plans**  
Primary 3

**Term 2**  
Involving pupils in  
their learning

**Week 11**  
**Subtracting  
three-digit  
numbers**  
Day 1

Lesson  
title

# Subtracting three-digit numbers

15  
minutes

## Learning outcomes

**By the end of the lesson, most  
pupils will be able to:**

Explain how to tell the time on the  
hour and half hour.

Subtract three-digit numbers.

## Teaching aids

**Before the lesson:**

Have ready a large clock with  
moveable hands.

Look at the weekly words,  
particularly the different terms  
for subtraction.

## Daily practice

**Whole class teaching**

Show the pupils a clock and  
ask them to tell you anything they  
can about clocks and how to tell  
the time.

Write their ideas on the chalkboard.

Remind them that the long hand  
tells the hour and the short hand  
shows the minutes.

Make some o'clock and half  
past times on the clock and ask  
individual pupils to tell you the time  
they make.

10  
minutes

## Introduction

### Whole class teaching

Ask the pupils to list some of the terms used for subtraction, eg: How many more than?, take away, What's the difference?

Explain that you are going to remind them how to subtract three-digit numbers.

25  
minutes

## Main activity

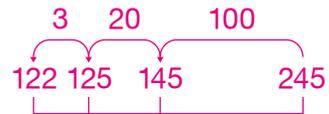
### Whole class teaching

Write the following sum on the chalkboard,  
 $245 - 123 =$

Ask them what you do first (draw a number line, writing the biggest number on the right-hand end).

Ask them the next step (expand the smallest number)  $123 = 100 + 20 + 3$ .

Ask them what they do next. (use the number line to do the sum):



10  
minutes

## Plenary

### Whole class teaching

Ask four pupils to share what they have learned with the rest of the class.

**Numeracy  
lesson plans**  
Primary 3

**Term 2**  
Involving pupils in  
their learning

**Week 11**  
**Subtracting  
three-digit  
numbers**  
Day 2

Lesson  
title

# Subtracting three-digit numbers

15  
minutes

## Learning outcomes

**By the end of the lesson, most  
pupils will be able to:**

Use a clock to tell the time on the  
hour and half hour.

Use a number line to subtract three-  
digit numbers.

## Teaching aids

**Before the lesson:**

Find or make a dummy clock,  
with moveable hands to show  
the hours and minutes.

Write the calculations shown  
in the main activity on the  
chalkboard.

## Daily practice

**Whole class teaching**

Show the pupils a dummy clock.

Make different times involving  
o'clock and half past on the clock  
and ask the pupils to write each  
time down in their exercise books.

After each question, tell them the  
answer and ask them to check if  
they are correct.

10  
minutes

## Introduction

### Whole class teaching

Write the following sum on the chalkboard and ask the pupils to remind you how to complete it using a number line:  
 $642 - 521 =$

25  
minutes

## Main activity

### Pair task

Ask pupils to complete the following calculations:  
 $356 - 132 =$   
 $476 - 254 =$   
 $538 - 316 =$

Ask two or three pupils to explain how they did this to the rest of the class.

10  
minutes

## Plenary

### Pair task

Give the pupils the following sums to answer orally, without using pencil and paper:

$$5 + 5$$

$$6 + 4$$

$$3 + 7$$

$$8 + 2$$

$$1 + 9$$

$$2 + 8$$

Lesson  
title

# Subtracting three-digit numbers

15  
minutes

## Learning outcomes

**By the end of the lesson, most pupils will be able to:**

Tell the time on the hour and the half hour.

Use a number line to answer the question 'How many less than?'

## Teaching aids

**Before the lesson:**

Collect dummy or cardboard clocks with moveable hands for each pair.

## Daily practice

**Pair task**

Hand out the clocks with moveable hands to each pair.

Ask all pairs to make the different o'clock and half past times that you tell them and hold up their clocks for everyone to see.

10  
minutes

## Introduction

### Group task

Ask each group to make as many sums as they can that make the number 50 in 5 minutes.

Time them carefully, telling them to stop as soon as the 5 minutes is finished.

25  
minutes

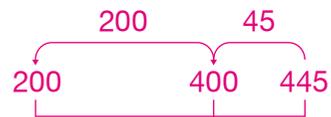
## Main activity

### Whole class teaching

Remind the pupils how to answer the question, 'How many less than?'

Ask them, 'How many less than 445 is 200?'

Ask them if they can remember how to do it.



200 is 245 less than 445

10  
minutes

## Plenary

### Pair task

Give the pairs the following sums to answer without pencil and paper:

60 + 40  
30 + 70  
50 + 50  
20 + 80  
80 + 20  
40 + 60  
90 + 10  
10 + 90

Lesson  
title

## Subtracting two-digit numbers, crossing the Ten

15  
minutes

### Learning outcomes

**By the end of the lesson, most pupils will be able to:**

Tell the time in 5-minute intervals.

Use a number line to subtract two-digit numbers.

### Teaching aids

#### Before the lesson:

Find a clock with moveable hands to use to make different times.

Make sure that you can easily explain the method to subtract two-digit numbers when the Unit in the second number is larger than the first (see opposite).

### Daily practice

#### Whole class teaching

Ask the pupils if they can remember how many minutes there are in an hour.

Explain that there are 60 minutes in an hour and that to tell the time people often talk in sets of 5 minutes; eg: 5 minutes past, 10 minutes past.

Count in fives up to 60.

Repeat, this time moving the hands around the clock as you do so.

10  
minutes

## Introduction

### Whole class teaching

Remind the pupils how to do the following sum, by expanding the smallest number and using a number line to work out the answer:

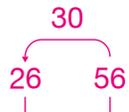
$$56 - 37 =$$

$$37 = 30 + 7$$

Explain that you can break this down into steps further to make it easier.

Firstly,

$$56 - 30 = 26$$



25  
minutes

## Main activity

### Pair task

Ask the pupils to try the following in pairs, using the same method:

$$45 - 28 =$$

$$67 - 59 =$$

$$83 - 46 =$$

$$34 - 27 =$$

$$57 - 19 =$$

Ask each pair to find another pair and compare answers.

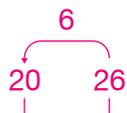
10  
minutes

## Plenary

### Whole class teaching

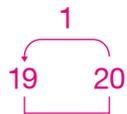
Ask each pupil to say one thing they have learned from the lesson.

To make the next jump easier, make a jump of 6 to 20.



Ask them, 'How many more do you need to take away so that you have taken 7 altogether?'

$$7 - 1 = 6$$



Complete the sum,  
 $56 - 37 = 19$

# Subtracting two-digit numbers

## Learning outcomes

**By the end of the lesson, most pupils will be able to:**

Use the clock to tell the time in 5-minute intervals.

Subtract two-digit numbers that cross the Ten.

## Teaching aids

### Before the lesson:

Have ready 0—9 number cards for each pair.

Find enough clocks with moveable hands for each pair to use.

Make sure that you can explain how to subtract two-digit numbers when the Unit is larger in the second number, using the method from Day 4.

## Daily practice

### Whole class teaching

Give out dummy clocks to each pair.

Read out times in jumps of 5 minutes in order, and ask pupils to make those times on their clocks using the minute hand (the long hand), eg: 5 minutes past, 10 minutes past, 15 minutes past.

10  
minutes

## Introduction

### Whole class teaching

Ask the pupils to remind you how to subtract the following:

$$54 - 35 =$$

$$36 - 18 =$$

25  
minutes

## Main activity

### Pair task

Give each pair a set of number cards from 0—9.

Ask them to choose four cards and make two, two-digit numbers using those cards.

Tell them to take the smallest number away from the largest number, drawing a number line to help them.

Tell them to repeat the task until they have completed about 10 sums.

Ask one or two pupils to show the rest of the class the sums they have made.

10  
minutes

## Plenary

### Pair task

Stand the pupils in a circle.

Throw a ball to a pupil and ask them a simple addition or subtraction sum which they can do without pencil and paper.

Ask that pupil to throw the ball to someone else and say another sum.

Continue until about six or seven pupils have had a turn.



Week  
12  
Subtracting  
three-digit numbers



**Words/phrases**

**subtraction**  
**take away**  
**minus**

**What's the difference?**

**How many less than?**

**quarter to**  
**quarter past**

**Assessment**

**During the lesson, walk round the classroom and ask questions to see if the pupils clearly understand what you have taught them. If not, help them to understand by explaining the idea to them again, or asking other pupils to help them. You may need to use some different examples of the idea.**

# Subtracting two- and three-digit numbers

## Learning outcomes

### By the end of the lesson, most pupils will be able to:

State how many minutes there are in a quarter hour and a half hour.

Use a number line to subtract two-digit numbers from three-digit numbers.

## Teaching aids

### Before the lesson:

Find or make dummy clocks, with moveable hands to show hours and minutes, for each pair.

Make sure you can explain the method to subtract three-digit numbers as shown on the next page.

## Daily practice

### Whole class teaching

Ask the pupils to help you draw a clock on the chalkboard, including the numbers.

Ask them to help you divide the clock in half by drawing a line from the 12 to the six.

Label the right half 'past' and the left half 'to'.

Ask the pupils to explain why you have done this.

Ask them where the lines would be to divide the clock into quarters.

Ask them,  
'How many minutes in one half?'  
'How many minutes in one quarter?'

Leave the clock on the chalkboard for the rest of the week.

10  
minutes

## Introduction

### Whole class teaching

Write the following sum on the chalkboard and ask the pupils to remind you how to answer it:

$$75 - 69 =$$

25  
minutes

## Main activity

### Whole class teaching

Tell the pupils that you are going to show them how to subtract two-digit numbers from three-digit numbers.

Write the following sum on the chalkboard:

$$245 - 27 =$$

$$27 = 20 + 7$$

$$\begin{array}{r} 7 \quad 20 \\ \overline{218 \quad 225 \quad 245} \end{array}$$

10  
minutes

## Plenary

### Whole class teaching

Ask the pupils to put their hands up when they have worked out the answers to the following questions:

$$50 + 60 =$$

$$70 - 30 =$$

$$120 - 40 =$$

$$130 + 50 =$$

Ask them to tell you how they worked out the answers.

# Subtracting two-digit numbers

## Learning outcomes

### By the end of the lesson, most pupils will be able to:

Tell the time using quarter past and quarter to.

Subtract two-digit numbers using a number line.

## Teaching aids

### Before the lesson:

Find or make dummy clocks, with moveable hands to show hours and minutes, for each pair.

Read New Method Mathematics 3, page 109, questions 1—6.

Read New Method Mathematics 3, page 41, questions 3—5.

## Daily practice

### Whole class teaching

Review yesterday's work, by looking at the clock and asking the pupils to tell you what the time is when the long hand is on the six (half past) and the 12 (o'clock).

Explain that when the long hand is on the three it is 'quarter past' and when it is on the nine it is 'quarter to'.

Explain that putting '.15' after an hour is another way of writing quarter past, and '.45' after an hour is another way of writing quarter to. So 4.15 is the same as quarter past 4.

Read New Method Mathematics 3, page 109, questions 1—6 with the pupils and ask them to tell you the answers.

10  
minutes

## Introduction

### Whole class teaching

Recap yesterday's work by asking the pupils to do the following sum in their exercise books using a number line to help them:  
 $564 - 72 =$

Ask the pupils to look at each other's work and discuss how they found their answer.

25  
minutes

New Method  
Mathematics 3

## Main activity

### Pair task

Ask pupils to complete New Method Mathematics 3, page 41, questions 3—5, using the method they practised on Day 1.

10  
minutes

## Plenary

### Whole class teaching

Ask some pupils to share their answers with the rest of the class.

# Making 100

## Learning outcomes

### By the end of the lesson, most pupils will be able to:

Recognise quarter to and quarter past on the clock.

Make up their own subtraction sums.

Identify number facts about the number 100.

## Teaching aids

### Before the lesson:

Find or make dummy clocks, with moveable hands to show hours and minutes, for each pair.

## Daily practice

### Whole class teaching

Use a clock to make different times using quarter to and quarter past.

Ask pupils to tell the class what times you have made.

Give each pair a clock with moveable hands.

Tell them to make the following times:

quarter past 6

quarter to 5

quarter to 7

quarter past 4

10  
minutes

## Introduction

### Whole class teaching

Write the number 100 on the chalkboard.

Ask the pupils to tell you anything they know about the number 100 and record their ideas around the number, eg:

100 is the same as 10 times 10.

100 is a very large number.

I can jump 100 times in 1 minute.

25  
minutes

## Main activity

### Group task

Ask the pupils to work in groups to see how many subtraction sums they can write whose answer equals 100, eg:

$$101 - 1 = 100$$

$$137 - 37 = 100$$

Tell the pupils they have 20 minutes to finish the task.

10  
minutes

Song

## Plenary

### Whole class teaching

Sing '100 green bottles' with the pupils, stopping when you reach 90.

Lesson  
title

# Subtracting three-digit numbers

15  
minutes

New Method  
Mathematics 3

## Learning outcomes

**By the end of the lesson, most pupils will be able to:**

Draw quarter to and quarter past on a clock.

Subtract three-digit numbers.

## Teaching aids

**Before the lesson:**

Find or make dummy clocks, with moveable hands to show hours and minutes, for each pair.

Read New Method Mathematics 3, page 109, questions 7—10.

Read New Method Mathematics 3, page 41, questions 6—9.

## Daily practice

**Pair task**

Explain that some people also use the word 'after' instead of 'past', so quarter **past** 3 can also be quarter **after** 3.

Ask pupils to complete New Method Mathematics 3, page 109, questions 7—10, using the clocks with moveable hands to help them and drawing clocks in their exercise books to record the answers.

10  
minutes

## Introduction

### Whole class teaching

Write the following numbers on the chalkboard:

145  
232  
787  
985  
436  
563

Ask the pupils to explain how to expand them.

25  
minutes

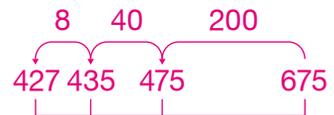
## Main activity

### Whole class teaching

Explain how to subtract two, three-digit numbers using the following example:

$$675 - 248 =$$

$$248 = 200 + 40 + 8$$



Complete the sum,  
 $675 - 248 = 427$ .

New Method  
Mathematics 3

### Pair task

Ask the pupils to complete New Method Mathematics 3, page 41, questions 6—9 in pairs.

10  
minutes

## Plenary

### Whole class teaching

Ask pupils to explain how they completed the sums.

Lesson  
title

# What's the difference?

15  
minutes

## Learning outcomes

**By the end of the lesson, most pupils will be able to:**

Write the time in two different ways.

Answer the question 'What's the difference?'

## Teaching aids

**Before the lesson:**

Find or make dummy clocks, with moveable hands to show hours and minutes, for each pair.

## Daily practice

**Whole class teaching**

Ask pupils to move the long hand on their clock around the numbers, counting in intervals of 5 minutes as they do so.

Remind them that each number means 5 minutes have passed.

Ask the pupils if they can tell you how many minutes there are in quarter of an hour.

Explain that quarter past can also be expressed as **15 minutes past**.

Ask them to make the following times on their clocks:

15 minutes past 1

15 minutes past 2

15 minutes past 3

15 minutes past 4, and so on.

Repeat these times, saying them in a random order, to check the pupils understand.

10  
minutes

## Introduction

### Whole class teaching

Ask the pupils to answer the following questions without using pencil and paper:

$25 - 3$   
 $32 - 7$   
 $45 + 8$   
 $57 - 6$   
 $23 + 16$   
 $16 + 17$   
 $65 - 34$   
 $43 - 27$

25  
minutes

## Main activity

### Whole class teaching

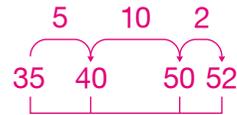
Remind the pupils how to answer the question, 'What's the difference between 35 and 52?'

Start at the lowest number.

Jump to the nearest Ten.

Jump up in Tens.

Count on until you reach the largest number, ie:



Add up the number of jumps.

Remind them to answer the question, 'The difference between 35 and 52 is 17.'

10  
minutes

## Plenary

### Whole class teaching

Ask the pupils to tell you something they have learned during the past week about time or subtraction.



Week  
13  
Metres and  
centimetres

## Words/phrases

**estimate**  
**length**  
**metres**  
**m**  
**centimetres**  
**cms**  
**record**  
**table**  
**measure**  
**width**  
**length**  
**breadth**  
**units of measurement**

## Assessment

**During the lesson, walk round the classroom and ask questions to see if the pupils clearly understand what you have taught them. If not, help them to understand by explaining the idea to them again, or asking other pupils to help them. You may need to use some different examples of the idea.**

Lesson  
title

# Estimating length and width

15  
minutes

## Learning outcomes

**By the end of the lesson, most pupils will be able to:**

Add three-digit numbers.

Use the vocabulary 'width' and 'length' to estimate and measure.

## Teaching aids

### Before the lesson:

Have ready a metre ruler for each pair.

Draw the table below on the chalkboard.

	Guess/estimate	Actual measurement
Length of the chalkboard		
Length of the desk		
Width of the chalkboard		
Width of the desk		

## Daily practice

### Whole class teaching

Give the pupils the following sums to answer using a number line:

$$140 + 162 =$$

$$236 + 471 =$$

$$489 + 143 =$$

$$186 + 233 =$$

$$818 + 191 =$$

10  
minutes

## Introduction

### Whole class teaching

Write the words 'width' and 'length' on the chalkboard.

Ask the pupils to look at their bench and tell you which part is the width and which is the length.

When measuring, the **width is always the short side**, and the **length is always the long side**.

Show the pupils a metre stick and explain that the measurement is a **metre** and they are going to estimate, or guess the length and width of classroom objects in metres.

25  
minutes

## Main activity

### Pair task

Show the pupils a metre ruler and ask them if they know what it is used for.

Show them how to measure accurately with the ruler.

Put the end of the metre stick at the end of the object they want to measure and make a small mark at the other end of the ruler.

Move the metre stick so that the 0 is against the mark and repeat as above.

Count how many metre lengths the space that you are measuring is.

Provide each pair with a metre ruler.

10  
minutes

## Plenary

### Whole class teaching

Ask pupils to use the tips of their fingers to measure the length and width of their table.

Ask the pupils to copy the table into their exercise books, use the metre ruler to measure the objects in the table and record the answer in the second column.

Ask them to look at their guess/estimate and see if they were correct.

Lesson  
title

# Measuring in centimetres

15  
minutes

## Learning outcomes

**By the end of the lesson, most pupils will be able to:**

Add three-digit numbers.

Explain why we need centimetres to measure objects.

## Teaching aids

### Before the lesson:

Have ready a metre ruler, with the centimetres clearly marked, for each pair.

Have ready a set of number cards from 0—9, enough for each pair.

## Daily practice

### Pair task

Give each pair of pupils a set of number cards from 0—9.

Ask them to each choose three numbers.

Tell one pupil to make the largest number they can with their cards.

Tell the other pupil to make the smallest number they can with their numbers.

Tell the pairs to add their two numbers together using a number line.

Ask them to repeat this process four or five times.

10  
minutes

## Introduction

### Whole class teaching

Ask the pupils to remind you how to use a metre stick to measure the length and width of objects.

Ask,  
'How many metres long is the classroom?'

Make sure they measure correctly according to the instructions from Day 1.

Ask them what they do if the metre stick is too long for the last measurement.

Explain that on the stick there are smaller measurements called **centimetres** and these can be used to measure smaller lengths.

25  
minutes

## Main activity

### Pair task

Give each pair a metre stick and ask,  
'How many centimetres are there in one metre?'

Tell them they can find out by counting the number of marks on the ruler.

When they have told you the answer ask,  
'Did anyone find an easier way of counting such a large number?'

Explain that the centimetres are broken into Tens so that they are easier to count.

Ask them to point to each Ten and count as they do, ie: 10, 20, 30, 40.

Tell each pair to measure their pencil.

Tell them to put the ruler flat on the table and put the end of the pencil right up against the 0.

Ask them to look at the place where the tip of the pencil finishes and count the number of centimetres to that point.

Record their answer on the chalkboard, eg: 15cms.

Explain that cms can be used instead of writing out the whole word.

Ask them to copy the table below and use their metre rulers to measure the objects and record their answers.

Object	Number of cms
Length of book	
Width of book	
Length of left hand	
Length of right foot	

10  
minutes

## Plenary

### Whole class teaching

Ask pupils to share their tables with the rest of the class.

Choose pupils to explain how easy or difficult it was to measure with a metre ruler.

Lesson  
title

# Metres and centimetres

15  
minutes

## Learning outcomes

**By the end of the lesson, most  
pupils will be able to:**

Add three-digit numbers.

Measure in centimetres.

## Teaching aids

### Before the lesson:

Read New Method Mathematics  
3, page 90.

Have ready a metre ruler, with the  
centimetres clearly marked, for  
each pair.

Have ready a small centimetre ruler  
for each pair.

## Daily practice

### Individual task

Give the pupils the following sums  
to do, in any way they can:

$$521 + 294 =$$

$$232 + 118 =$$

$$362 + 151 =$$

$$481 + 309 =$$

Ask some pupils to tell you how they  
answered the sums.

10  
minutes

## Introduction

### Whole class teaching

Ask the pupils,  
'What is the smaller  
measurement than metres  
that we learned yesterday?'

Ask them to explain how  
to measure their finger using  
a metre ruler.

Explain that when you are  
measuring small things it is  
easier to use a smaller ruler.

Give each pair a centimetre  
ruler and a metre ruler.

Ask them to compare  
the centimetres on both  
and check that the  
measurements are the  
same size.

Ask:

'How many cms on the  
smaller ruler?'

'How many small rulers are  
the same as one metre  
ruler?'

'How many cms is the same  
as one metre?'

25  
minutes

New Method  
Mathematics 3

## Main activity

### Pair task

Ask the pupils to measure  
the lines in New Method  
Mathematics 3, page 90,  
using a centimetre rule.

Ask them to record their  
answers in a table like the  
one shown below.

Make sure that they  
write cms after each  
measurement recorded.

Line	Measurement
Line (1)	
Line (2)	
Line (3)	
Line (4)	
Line (5)	
Line (6)	
Line (7)	

10  
minutes

## Plenary

### Pair task

Ask the pupils to find  
another pair and see if their  
results are the same.

Tell them to check that  
cms is written after each  
measurement.

**Numeracy  
lesson plans**  
Primary 3

**Term 2**  
Involving pupils in  
their learning

**Week 13**  
**Metres and  
centimetres**  
Day 4

Lesson  
title

# Metres and centimetres

15  
minutes

## Learning outcomes

**By the end of the lesson, most  
pupils will be able to:**

Add three-digit numbers.

Measure in centimetres and metres.

## Teaching aids

### Before the lesson:

Have ready a metre ruler, with the centimetres clearly marked, for each pair.

Have ready a small centimetre ruler for each pair.

## Daily practice

### Whole class teaching

Write the following sums one at a time on the chalkboard and ask the pupils to answer them without using pencil or paper:

$$100 + 145 =$$

$$200 + 145 =$$

$$300 + 145 =$$

$$400 + 145 =$$

$$500 + 145 =$$

$$600 + 145 =$$

$$700 + 145 =$$

$$800 + 145 =$$

Write down the answers as the pupils say them and ask if anyone can notice a pattern.

Ask if anyone can tell you why the answers have that pattern.

10  
minutes

## Introduction

### Whole class teaching

Remind the class that estimate means to guess and the reason why we estimate is to help us if numbers are too big to count or if we don't have anything to measure with.

Practise using the word estimate so they understand its meaning.

Ask:

'Can you estimate the number of pupils in the class today?'

'Can you estimate the number of chairs/benches in the room?'

'Can you estimate the height of the teacher's table in metres?'

'Can you estimate the width of the door in centimetres?'

Record their answers on the chalkboard in a table like the one below.

Ask a pupil to count the number of pupils and the number of chairs and record their answers on the table on the chalkboard.

Object	Estimate	Actual measurement/number
Number of pupils		
Number of chairs/benches		
Height of teacher's table		
Width of door		

25  
minutes

New Method  
Mathematics 3

## Main activity

### Pair task

Ask pupils to copy and complete the table in New Method Mathematics 3, page 89, using a ruler to draw the table.

Explain that first they have to estimate the length in centimetres and then measure it. Explain that 'breadth' is another word for width.

Remind them that they should make their best estimate but shouldn't change it if they find they are not correct when they measure the lines.

10  
minutes

## Plenary

### Whole class teaching

Ask the pupils to say how close to the correct measurement their estimate was.

Ask them to compare answers to check they are correct.

**Numeracy  
lesson plans**  
Primary 3

**Term 2**  
Involving pupils in  
their learning

**Week 13**  
Metres and  
centimetres  
Day 5

Lesson  
title

# Metres and centimetres

15  
minutes

New Method  
Mathematics 3

## Learning outcomes

**By the end of the lesson, most  
pupils will be able to:**

Add three-digit numbers.

Measure in metres and centimetres  
and record the measurement.

## Teaching aids

**Before the lesson:**

Have ready a metre ruler, with the  
centimetres clearly marked, for  
each pair.

Have ready a small centimetre ruler  
for each pair.

Have ready some large blank paper  
for each group to draw and write on.

## Daily practice

**Whole class teaching**

Ask the pupils to complete  
New Method Mathematics 3,  
page 29, questions 16—20  
using a number line.

Ask them to write the sum as  
a horizontal sum first and then  
draw a number line to answer the  
questions, eg:  $552 + 346 =$

10  
minutes

## Introduction

### Whole class teaching

Ask,  
'Can someone tell me what we do when we estimate a length?'

Ask:

'Which two units of measurement have we been using this week?'  
(Metres and centimetres)

'Which is the largest unit of measurement?'

'Which would we use to measure the length of the classroom?'

'Which would we use to measure the width of a book?'

25  
minutes

## Main activity

### Group task

Give each group a large sheet of paper, and tell them they will need both their metre rulers and centimetre rulers.

Explain that they are going to measure some objects and draw a table to record their measurements.

Write the following list on the chalkboard:  
Length of the book  
Width of the classroom  
Width of your chair seat  
Length of your table

Tell the groups to draw a table on the back of their paper like the ones they have been completing all week.

10  
minutes

## Plenary

### Whole class teaching

Ask each group to show the rest of their class their tables and then display them in the classroom.

Week  
14  
Working with metres  
and centimetres





**Words/phrases**

**metre**  
**centimetre**  
**millimetre (mm)**  
**kilometre (km)**  
**tallest**  
**shortest**  
**widest**  
**thinnest**  
**longest**

**Assessment**

**During the lesson, walk round the classroom and ask questions to see if the pupils clearly understand what you have taught them. If not, help them to understand by explaining the idea to them again, or asking other pupils to help them. You may need to use some different examples of the idea.**

Lesson  
title

# Measuring in metres and centimetres

15  
minutes

## Learning outcomes

**By the end of the lesson, most pupils will be able to:**

Subtract three-digit numbers.

Measure in centimetres.

## Teaching aids

### Before the lesson:

Have ready a centimetre and a metre ruler for each group.

Have ready a large sheet of blank paper for each group.

## Daily practice

### Whole class teaching

Give the pupils the following sums to answer using a number line:

$$162 - 140 =$$

$$471 - 236 =$$

$$489 - 143 =$$

$$237 - 186 =$$

$$818 - 191 =$$

Walk around the room and help pupils who are finding it difficult.

10  
minutes

## Introduction

### Whole class teaching

Ask,  
'Show me the length, width  
and height of your table.'

Ask the pupils to tell you  
something they learned  
about measurement the  
previous week.

25  
minutes

## Main activity

### Group task

Give each group a metre  
ruler and a small centimetre  
ruler. Ask them to tell you  
how many centimetres  
there are in a metre (100).

Ask them to measure the  
length of the classroom in  
centimetres (using the metre  
ruler, not the small ruler).

Remind them that the  
easiest way is to count  
a Hundred for each metre  
they measure.

Ask them to record  
their measurement in  
centimetres, eg: 750cms.

Ask them to measure the  
following in centimetres  
and record their answers  
in a table:

Width of the classroom

Height of the window

Width of the door

Height of the teacher's table

10  
minutes

## Plenary

### Whole class teaching

Ask groups to report their  
measurements back to the  
rest of the class.

Lesson  
title

# Measuring in metres and centimetres

15  
minutes

## Learning outcomes

**By the end of the lesson, most pupils will be able to:**

Subtract three-digit numbers.

Measure in metres and centimetres and record those measurements in a table.

## Teaching aids

**Before the lesson:**

Have ready metre rulers and centimetre rulers for each group.

Have ready a large sheet of blank paper for each group.

Have ready a set of 0—9 number cards for each pair.

## Daily practice

**Pair task**

Give each pair of pupils a set of number cards from 0—9.

Ask them to each choose three numbers.

Tell one member of each pair to make the largest number they can with their numbers.

Tell the other member of each pair to make the smallest number they can with their numbers.

Tell pupils to subtract the smallest number from the largest number.

Ask them to repeat this process four or five times.

10  
minutes

## Introduction

### Whole class teaching

Ask, 'How did you measure in centimetres yesterday?'

Remind the pupils that instead of counting all the centimetres separately they counted each metre length as 100 because they know that one metre is the same as 100cms.

Ask them to find the tables recording their measurements from yesterday.

	Centimetres	Metres and centimetres
Width of the classroom	750cms	7m 50cms
Height of the window		
Width of the door		
Height of the teacher's table		

25  
minutes

## Main activity

### Group task

Tell the groups to measure in metres, using their metre ruler, and write down the number of full metres.

If the final measurement is not a full metre they should measure it in centimetres.

This means they will have a measurement that is written in metres and centimetres, eg: 7 metres 50 centimetres or 7m 50cms.

10  
minutes

## Plenary

### Whole class teaching

Tell the pupils to compare the two columns where they have recorded the measurements in centimetres and then in metres and centimetres.

Ask if there is any connection between the numbers.

Lesson  
title

# Recording measurements

15  
minutes

## Learning outcomes

**By the end of the lesson, most pupils will be able to:**

Subtract three-digit numbers.

Measure in metres and centimetres.

Record measurements in a table.

## Teaching aids

**Before the lesson:**

Have ready metre rulers and centimetre rulers for each pair.

## Daily practice

**Whole class teaching**

Give the pupils the following sums to do, in any way they can:

$$521 - 294 =$$

$$232 - 118 =$$

$$362 - 171 =$$

$$481 - 300 =$$

Ask some pupils to tell you how they answered the sums.

10  
minutes

## Introduction

### Whole class teaching

Ask the pupils if they can remember what they learned on Day 2 about metres and centimetres.

Explain that sometimes it is easier to write a measurement in centimetres and sometimes it is easier to write a measurement in metres and centimetres.

25  
minutes

## Main activity

### Pair task

Tell the pairs to measure the following:

Length of their arm

Width of their foot

Height to the top of the window in the classroom

Length of two desks/tables joined together

Length of the school building they are in

Ask them to record their measurements on a table in centimetres, and in metres and centimetres.

10  
minutes

## Plenary

### Whole class teaching

Ask if anyone found an easy way of converting/changing centimetres to metres and centimetres.

Explain that if they look at the digit in the Hundreds column when they have measured in centimetres, that will tell them how many metres there are in the measurement.

The digits in the Tens and Units columns will tell them how many centimetres, eg:

HTU

234cms can be written as  
2m 34cms.

Lesson  
title

# Converting centimetres into metres

15  
minutes

## Learning outcomes

**By the end of the lesson, most pupils will be able to:**

Subtract Hundreds from a three-digit number.

Convert centimetres into metres and centimetres.

## Teaching aids

**Before the lesson:**

Read New Method Mathematics 3, page 89, questions 7—11.

## Daily practice

**Whole class teaching**

Write the following sums one at a time on the chalkboard and ask the pupils to answer them without using pencil or paper:

$$973 - 100 =$$

$$973 - 200 =$$

$$973 - 300 =$$

$$973 - 400 =$$

$$973 - 500 =$$

$$973 - 600 =$$

$$973 - 700 =$$

$$973 - 800 =$$

Write down the answers as pupils say them and ask if anyone can notice a pattern.

Ask if anyone can tell you why the numbers have that pattern.

10 minutes | New Method Mathematics 3

## Introduction

### Whole class teaching

Remind the pupils that  
1 metre = 100 centimetres.

Ask them if they can remember what they learned on Day 3 about converting centimetres into metres and centimetres.

Remind them that if they look at the centimetres the number of Hundreds will tell them how many metres.

Ask,  
'Can you tell me why?'  
(There are 100 centimetres in a metre)

Go through the examples at the top of New Method Mathematics 3, page 89 with the class.

25 minutes | New Method Mathematics 3

## Main activity

### Pair task

Ask the pupils to complete New Method Mathematics 3, page 89, questions 7—11 in their exercise books.

10 minutes

## Plenary

### Whole class teaching

Ask the pupils to share their work and see who has understood it.

Lesson  
title

# Converting metres into centimetres

15  
minutes

## Learning outcomes

**By the end of the lesson, most pupils will be able to:**

Add and subtract three-digit numbers.

Convert metres and centimetres into centimetres.

## Teaching aids

**Before the lesson:**

Write the daily practice calculations on the chalkboard.

Have ready a metre ruler and a centimetre ruler for each pair.

## Daily practice

**Whole class teaching**

Ask pupils to complete the following calculations:

$$145 + 253 =$$

$$674 - 431 =$$

Ask pupils to explain how they got the answers.

10  
minutes

## Introduction

### Pair task

Give each pair a centimetre ruler and a metre ruler.

Ask them to write down the number of centimetres there are in the following:

- 1 metre = (100cms)
- 2 metres = (200cms)
- 3 metres
- 4 metres
- 5 metres
- 6 metres
- 7 metres
- 8 metres
- 9 metres
- 10 metres

Share their answers and check that they are correct.

25  
minutes

## Main activity

### Individual task

Explain to the class that they can change metres and centimetres back to centimetres by using their knowledge of metres and centimetres and Hundreds, Tens and Units, eg:  
'How many centimetres are there in 2m 40cms?'

Explain that to get that answer you need to expand the metres and then put the number together, eg:  
 $2\text{m } 40\text{cms} = 200 + 40 = 240\text{cms}$

Ask the class,  
'How many centimetres are there in:  
3m 20cms  
2m 50cms  
5m 43cms?'

New Method  
Mathematics 3

### Pair task

Ask pupils to complete New Method Mathematics 3, page 89, questions 12—16.  
Go through the answers with them and check they are correct.

10  
minutes

## Plenary

### Whole class teaching

Ask each pupil to tell you one thing they have learned about measuring during the past two weeks.

A hand is shown holding a white plastic bottle cap over a wooden surface. Several other white plastic bottle caps are scattered on the wooden surface. The background is a warm, reddish-brown color.

Week  
15  
Multiplying two-digit  
numbers by single  
digit numbers

## Words/phrases

multiply  
times  
groups of  
lots of  
product  
number  
brackets  
columns  
rows  
multiply  $\_$  and  $\_$

What is the product  
of  $\_$ ?

How many times  $\_$   
is  $\_$ ?

What is  $\_$  groups of  $\_$ ?

What is  $\_$  lots of  $\_$ ?

## Assessment

During the lesson, walk  
round the classroom  
and ask questions to  
see if the pupils clearly  
understand what you  
have taught them. If not,  
help them to understand  
by explaining the idea  
to them again, or asking  
other pupils to help them.  
You may need to use  
some different examples  
of the idea.

## Revisiting multiplication of single digit numbers

### Learning outcomes

**By the end of the lesson, most pupils will be able to:**

Know different terms for multiplication.

Multiply single digit numbers using repeated addition.

### Teaching aids

#### Before the lesson:

Have ready a set of large flash cards with the following questions:

Multiply \_\_\_ and \_\_\_

What is the product of \_\_\_?

What is \_\_\_ times \_\_\_?

What is \_\_\_ groups of \_\_\_?

What is \_\_\_ lots of \_\_\_?

Have ready a set of number cards from 1—25 for each pupil.

### Daily practice

#### Whole class teaching

Show the pupils the flash cards and read them out, putting numbers in the spaces, eg:

‘Multiply 2 and 3.’

‘What is the product of 4 and 2?’

‘What is 5 times 3?’

‘What is two groups of 2?’

‘What is three lots of 1?’

Put the number cards 1—5 on the table and ask a pupil to come out and pick two.

Tell them to hold up the numbers, while another pupil reads the question flash card, inserting those numbers in the correct places.

Ask pupils to show you the answer to each question by holding up their number cards.

Repeat with different numbers.

10  
minutes

## Introduction

### Whole class teaching

Ask the pupils to remind you how to do the following sum using a number line,  $6 \times 7 =$

As they explain, work it through on the chalkboard with them.

25  
minutes

## Main activity

### Whole class teaching

Explain to the pupils that they are going to learn another way of doing multiplication which will be easier when the sums they are doing get more difficult.

Draw the table below on the chalkboard and ask the pupils to count the number of squares.

Explain that a table is easier to understand if you break it up into rows and columns. The rows go across and the columns go down.

	column
row	

### Pair task

Ask them, 'How many rows?' (3)  
'How many columns?' (2)

Tell them that this can be written as  $3 \times 2 = 6$

Explain that they can multiply the rows by the columns and they will get the same answer as counting the squares.

Repeat this for the table below.


10  
minutes

## Plenary

### Whole class teaching

Ask some pupils to share what they have learned and demonstrate to the rest of the class how they got their answers.

### Pair task

Tell pupils to work in pairs and repeat what you have just done on the chalkboard, with the following pairs of numbers:

- 4 columns 2 rows
- 3 columns 3 rows
- 2 columns 3 rows
- 5 columns 2 rows
- 3 columns 5 rows

Explain that they should draw the squares in their exercise books to help them.

Tell them to check that the answer to their sums and the number of squares are the same.

Lesson  
title

# Multiplying single digit numbers

15  
minutes

## Learning outcomes

**By the end of the lesson, most  
pupils will be able to:**

Multiply single digit numbers  
from memory.

Multiply two-digit numbers by  
a single digit number.

## Teaching aids

**Before the lesson:**

Read through this lesson's  
instructions carefully and practise  
using this method of multiplication  
so that you understand it.

## Daily practice

**Group task**

Give each group a number from  
1—5 and ask them to multiply  
that number by all numbers from  
1—10, eg:

$$2 \times 1 =$$

$$2 \times 2 =$$

$$2 \times 3 =$$

$$2 \times 4 =$$

Ask them to write each sum in their  
exercise books.

10  
minutes

## Introduction

### Whole class teaching

Draw a table on the chalkboard as you did yesterday.

Ask the pupils to show you the columns and the rows.

Ask them:

'How many columns?'

'How many rows?'

Ask pupils to tell you how to do the following sum by drawing a table,  
 $5 \times 3 =$

25  
minutes

## Main activity

### Whole class teaching

Explain that you are going to show them how to multiply a two-digit number by a single digit number.

Write the following sum on the chalkboard,  
 $11 \times 2 =$

Explain that they could draw a table or a number line to help them do the multiplication, but when the sum gets more difficult it will take too long to use those methods so you are going to show them another way.

First of all they should expand the number 11,  
 $11 = 10 + 1$

Explain that they then need to multiply both numbers by 2.

Tell them that it can get confusing so to help them they should draw brackets around each sum as follows:

$$(10 \times 2) = 20$$

$$(1 \times 2) = 2$$

Explain that they still haven't finished the sum as they need to add the answers together,

$$20 + 2 = 22$$

and write the completed sum,

$$11 \times 2 = 22$$

Repeat for the following sum:

$$12 \times 3 = 10 + 2 \times 3$$

Which should be written as:

$$(10 \times 3) = 30$$

$$(2 \times 3) = 6$$

$$30 + 6 = 36$$

$$12 \times 3 = 36$$

### Pair task

Leave the sum on the chalkboard and ask pupils to follow the steps to complete these sums:

$$14 \times 2 =$$

$$15 \times 3 =$$

$$12 \times 5 =$$

$$16 \times 4 =$$

$$14 \times 5 =$$

$$16 \times 2 =$$

10  
minutes

## Plenary

### Whole class teaching

Ask five pupils to share with the rest of the class what they have learned and how they did their sums using the chalkboard.

Lesson  
title

# Multiplying two-digit numbers by single digit numbers

15  
minutes

## Learning outcomes

**By the end of the lesson, most pupils will be able to:**

Multiply single digit numbers from memory.

Multiply two-digit numbers by a single digit number.

## Teaching aids

**Before the lesson:**

Have ready a set of number cards from 1—100.

## Daily practice

**Group task**

Give each group a set of cards between 1 and 100, eg:

Group 1 (3 to 28)

Group 2 (29 to 40)

Group 3 (41 to 61)

Call out a number between one and five and ask each group to place their lowest number card on the table.

Ask them to add on the number you have just given them until they have finished all their numbers, eg: If you call out the number five, group 2 would lay these cards on the table, 29, 34, 39.

Repeat, calling out different numbers each time.

10  
minutes

## Introduction

### Whole class teaching

Write the following sums on the chalkboard and ask the pupils to complete them in the way that they learned on Day 2:

$$13 \times 5 =$$

$$11 \times 6 =$$

$$14 \times 5 =$$

When they have completed the sums, ask the class to tell you their answers.

25  
minutes

## Main activity

### Individual task

Ask the pupils to complete the following calculations:

$$12 \times 6 =$$

$$14 \times 4 =$$

$$17 \times 3 =$$

$$24 \times 2 =$$

Sit with any pupils who are struggling to understand how to do the sums and help them.

Go through each sum step by step with them.

Once a pupil has understood the method they can carry on alone.

10  
minutes

## Plenary

### Whole class teaching

Ask the pupils to share their answers with the rest of the class.

**Numeracy  
lesson plans**  
Primary 3

**Term 2**  
Involving pupils in  
their learning

**Week 15**  
**Multiplying**  
**two-digit numbers**  
**by single digit**  
**numbers**  
Day 4

Lesson  
title

# Multiplying two-digit numbers by single digit numbers

15  
minutes

## Learning outcomes

**By the end of the lesson, most  
pupils will be able to:**

Multiply single digit numbers from  
memory.

Multiply two-digit numbers by single  
digit numbers.

## Teaching aids

**Before the lesson:**

Have ready two sets of number  
cards from 1—100.

Read New Method Mathematics  
3, page 64, questions 34 — 40.

## Daily practice

**Pair task**

Repeat the activity from Day 3,  
giving number cards to pairs.

10  
minutes

## Introduction

### Pair task

Pair the pupils who are struggling to multiply single digit and two-digit numbers with those who understand it well.

Write the following sums on the chalkboard and ask the pairs to work out the answers together:

$$12 \times 2 =$$
$$14 \times 3 =$$
$$22 \times 4 =$$

25  
minutes

New Method  
Mathematics 3

## Main activity

### Pair task

In the same pairs, ask the pupils to complete New Method Mathematics 3, page 64, questions 34—40.

10  
minutes

## Plenary

### Whole class teaching

Read out the following sums one at a time and ask pupils to quickly tell you the answers, without using pencil and paper to work them out:

$$4 \times 5 =$$
$$2 \times 3 =$$
$$5 \times 5 =$$
$$3 \times 3 =$$
$$2 \times 2 =$$
$$4 \times 4 =$$
$$2 \times 10 =$$
$$4 \times 10 =$$

# Word problems

## Learning outcomes

**By the end of the lesson, most pupils will be able to:**

Multiply single digit numbers from memory.

Multiply two-digit numbers by a single digit number.

## Teaching aids

### Before the lesson:

Write the following sequences of numbers on the chalkboard:

2, 4, , 8, 10

3, 6, 9, 12, , 18, 21

8, 12, 16, , 24

12, , 16, 18,

7, 10, , 16

Have ready the flash cards from Day 1.

## Daily practice

### Whole class teaching

Read out the first number sequence on the chalkboard and ask pupils to help you find the missing number.

Ask them to work out the missing numbers for each sequence of numbers on the chalkboard.

10  
minutes

## Introduction

### Whole class teaching

Flash the cards with different word questions for multiplication and ask the pupils to read them.

Put the cards face down on the floor and ask one pupil to come out, choose a card, and read it out to the class.

Ask individual pupils to make up a sum using that phrase for the rest of the class to answer.

25  
minutes

## Main activity

### Group task

Give each group a flash card and ask them to make up three sums using the multiplication term on that card and write their sums on the back of the card.

Ask them to pass the card on to the next group who should also write three sums (not the answers) on the back.

Continue until each group has had each card.

The cards should now be back with the first group.

Ask them to work together to answer all the sums on the card and write the answers on the back.

10  
minutes

## Plenary

### Whole class teaching

Ask the pupils to tell you everything they have learned about multiplication this week.

## Credits

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In 2008, Kwara State carried out a Teachers' Development Needs Assessment for all primary school teachers. This showed that most teachers in Kwara State did not have strong literacy and numeracy skills. The Kwara State Government responded by developing a strategy to support existing teachers and improve new teachers' pre-service training.

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These literacy and numeracy lesson plans, developed by the Kwara State School Improvement Team, were part of that strategy. Two years after introducing these plans alongside the training and support programme, Kwara State began to see strong improvements in teachers' teaching skills and pupils' learning outcomes.

## Special thanks go to:

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The Honourable Commissioner and staff of the Kwara State Ministry of Education and Human Capital Development, as well as the Kwara State Universal Basic Education Board for their support and valuable input and for agreeing to share these plans with other states.

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Thanks also go to the teachers of Kwara State who have used these plans to bring about change in their classrooms.

